

CHAPTER 7

FLOOD-PROOFING REQUIREMENTS

7.01 Certification

If the following flood-proofing requirements are to be applied to a proposed structure, as stipulated by the Floodplain Administrator in accordance with these Regulations, the methods used must be certified as adequate by a registered professional engineer or architect.

7.02 Conformance

Permitted flood-proof systems shall conform to the conditions listed below: and the flood-proofing standards listed in Section 5.03-B.4. of these regulations for commercial and industrial structures.

A. Electrical Systems

1. All incoming power service equipment, including all metering equipment, control centers, transformers, distribution and lighting panels and all other stationary equipment must be located at least two (2) feet above the base flood elevation;
2. Portable or movable electrical equipment may be placed below the base flood elevation, if the equipment can be disconnected by a single plug-and-socket assembly of the submersible type;
3. The main power service line shall have automatically operated electrical disconnect equipment or manually operated electrical disconnect equipment located at an accessible remote location outside the floodplain of 100-year frequency and above the base flood elevation; and
4. All electrical wiring systems installed at or below the elevation of the flood of 100-year flood shall be suitable for continuous submergence and may not contain fibrous components.

B. Heating Systems

1. Float operated automatic control valves must be installed in supply lines to gas furnaces so that the fuel supply is automatically shut off when flood waters reach the floor level where the furnaces are located;
2. Manually operated gate valves that can be operated from a location above the elevation of the flood of 100-year flood also shall be provided in gas supply lines;
3. Electric heating systems must be installed in accordance with the provisions of Section 7.02 A.

C. Plumbing Systems

1. Sewer lines, except those to be buried and sealed in vaults, must have check valves installed to prevent sewage backup into permitted structures;
2. All toilet stools, sinks, urinals and drains must be located such that the lowest point of possible water entry is at least two (2) feet above the elevation of the 100-year flood.